

**Soil Moisture Active and Passive (SMAP) Mission**  
**Algorithms and Calibration/Validation Workshop**

Embassy Suites Hotel, Oxnard, CA  
June 9-11, 2009

**Agenda**

**Day 1 (Tuesday June 9, 2009)**

08:00	Registration/Check-In	
08:30	Opening/Introduction	Njoku/Moghaddam/Jackson
08:45	SMAP mission status	Kellogg
09:15	SMAP Measurement System	Spencer/West
<b>10:00</b>	<b>Break</b>	
10:15	SMAP Science Data System (SDS)	Bicknell/Toaz
10:40	Gridding/projections & algorithm Testbed status	Dunbar/Chan

**Algorithms Workshop**

11:05	Algorithms Workshop Expectations	Moghaddam
11:20	Level 1 Radiometer	Piepmeyer et al.
11:40	Discussion	
<b>12:10</b>	<b>Lunch</b>	
01:10	Level 1 Radar	West et al.
01:30	Discussion	
02:00	Level 3 40 km Soil Moisture	O'Neill et al.
02:20	Discussion (includes 1-slide additional presentations, if any)	
<b>03:00</b>	<b>Break</b>	
03:15	Level 3 Hi-Res Soil Moisture	van Zyl et al.
03:35	Discussion (includes 1-slide additional presentations, if any)	
04:15	Level 3 A/P Soil Moisture	Entekhabi et al.
04:35	Discussion (includes 1-slide additional presentations, if any)	
05:15	Adjourn	

**Day 2 (Wednesday June 10, 2009)**

08:30	Level 3 Freeze/Thaw	McDonald et al.
08:50	Discussion (includes 1-slide additional presentations, if any)	
09:30	Level 4 Soil Moisture	Reichle et al.
<b>10:00</b>	<b>Break</b>	
10:15	Discussion (includes 1-slide additional presentations, if any)	
10:55	Level 4 Carbon	Kimball et al.
11:25	Discussion (includes 1-slide additional presentations, if any)	
<b>12:10</b>	<b>Lunch</b>	
01:10	Action Items and Wrap Up	Moghaddam

### Cal/Val Workshop

02:10	Cal/Val Workshop Expectations	Jackson
02:25	Overview of SMAP Cal/Val approach (Draft Cal/Val Plan)	Jackson/Kimball
<b>03:00</b>	<b>Break</b>	
03:15	Cal/Val requirements from algorithms (L1 radiometer and radar products) L1B_TB, L1C_TB, L1C_BS	Piepmeier/West
03:45	Cal/Val requirements from algorithms (L3 & L4, SM & F/T products) L3_SM_40km, L3_SM_3km, L3_SM_A/P, L4_SM L3_FT, L4_C	Jackson/Kimball
04:45	Preliminary assessment of priorities	Jackson
05:00	Adjourn	

### **Day 3 (Thursday June 11, 2009)**

08:30	In situ network data acquisition and integration SM Networks USDA NRCS SCAN NOAA CRN Oklahoma Mesonet USDA ARS Watersheds COSMOS GPS Additional presentations (1 slide) FT(Met) Networks Compatibility of Networks with Cal/Val Needs Proposal for establishing an Insitu Testbed(s) Strategy for International Participation	Jackson  Schaeffer Wilson Basara Cosh Zreda Small  Kimball/McDonald Jackson Cosh Jackson
09:45	Methodologies for scaling Methods Replication and Variability	Famiglietti  Famiglietti
<b>10:00</b>	<b>Break</b>	
10:15	Methodologies for scaling (cont.) Temporal Stability Enhanced Temporal Stability Model Enhanced Approaches Additional presentations (1 slide) Research Priorities	 Cosh Mohanty Crow  Famiglietti/Jackson
11:15	Design of an optimal SMAP multi-scale validation site Identify potential primary validation sites and actions needed for implementation	Jackson/Kimball
<b>12:15</b>	<b>Lunch</b>	
01:30	Satellite resources and role in SMAP Cal/Val Prelaunch: L3_SM_40 (SMOS, Aquarius); L3_SM_3km (ALOS), L3_FT (ALOS) Postlaunch: L1_TB (SMOS, Aquarius), L1_BS (ALOS, SAOCOM), L3_SM_40 (SMOS, GCOM-W), L3_SM_3km (SAOCOM) Comments from SMOS, GCOM-W, and Aquarius on cooperation	Jackson
02:00	Field Campaign Plans (Near-Term): SMAPVEX10 Priorities, aircraft/tower resources, broader interaction considerations	Jackson
<b>03:15</b>	<b>Break</b>	
03:30	Field Campaign Plans (Long-Term) Cal/Val Scenarios	Jackson
04:30	Wrap-up discussions and actions	Jackson/Colliander
05:00	Adjourn	